



Western
Hemlock



Douglas Fir



Grasses
& Sedges



Alder

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Broadly distributed throughout Pacific Northwest from moderately cool to warm sites. Grows best under temperate, somewhat moist conditions.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Principal dominant tree of many lowland, temperate sites. Requires very moist, temperate conditions for growth.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Widespread throughout Northwest, often colonizing gravel bars or other poor soils, prefers abundant water and can grow in cool climates.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

This pollen from grasses and sedges typically found in very cool alpine/subalpine meadow sites characterized by very cool summers, harsh winters, and short growing seasons.



Grand Fir



Englemann
Spruce



Western
Red Cedar



Lodgepole
Pine

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Found in cold, usually subalpine sites. It is an important timberline species in the Rocky Mountains.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Found at mid-elevations in Cascade mountains. Grows in cool climates, but not as cold tolerant as trees found at higher altitudes.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Found in areas of very cool climates typically growing in poor soils, often at high altitudes (above 3,500 feet) under the present climate.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



1 5 10

Found only in temperate, very moist climates.



Mixed Meadow
Species



Alpine
Sagebrush



Oak

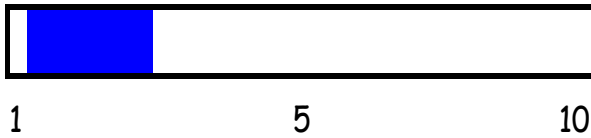


Douglas Fir

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature

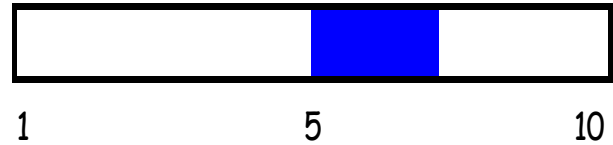


Woody, low-growing shrub found only at high-altitude, cold sites.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very

Temperature

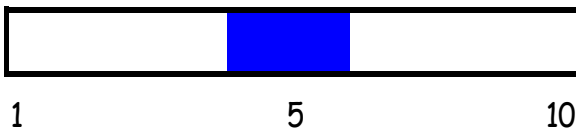


This pollen is typical of a mixture of herba-
ceous plants common to warm-temperate
meadowlands. Typically, these species grow
in areas of warm summer temperatures and
summer drought.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature

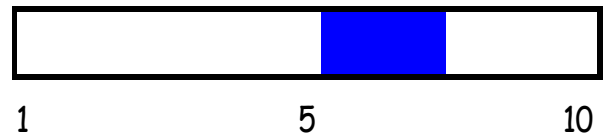


Principal dominant tree of many lowland, tem-
perate sites. Requires very moist, temperate
conditions for growth.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Found in warm-temperature sites character-
ized by dry, warm summers.



Douglas Fir



Alder



Grand Fir



Lodgepole
Pine

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Widespread throughout Northwest, often colonizing gravel bars or other poor soils, prefers abundant water and can grow in cool climates.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Principal dominant tree of many lowland, temperate sites. Requires very moist, temperate conditions for growth.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Found in areas of very cool climates typically growing in poor soils, often at high altitudes (above 3,500 feet) under the present climate.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Found at mid-elevations in Cascade mountains. Grows in cool climates, but not as cold tolerant as trees found at higher altitudes.



Englemann
Spruce



Grasses
& Sedges



Alpine
Sagebrush

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



This pollen from grasses and sedges typically found in very cool alpine/subalpine meadow sites characterized by very cool summers, harsh winters, and short growing seasons.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature

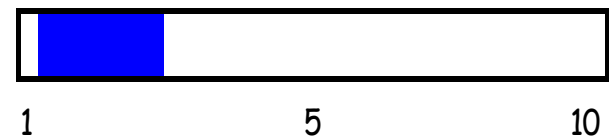


Found in cold, usually subalpine sites. It is an important timberline species in the Rocky Mountains.

Preferable Climate Conditions

Temperature:
1 = species re-
quires cold
temperatures
with a short
growing sea-
son.
10 = species
requires very
hot conditions.

Temperature



Woody, low-growing shrub found only at high-altitude, cold sites.